

International application No. PCT/NZ2003/000286

		<u> </u>	PCT/NZ2003/000286
<b>A.</b>	CLASSIFICATION OF SUBJECT MATTER		·
Int. Cl. 7:	F04B 43/12, 45/08		
According to	International Patent Classification (IPC) or to both	national classification and IPC	
В.	FIELDS SEARCHED		
Minimum docu	umentation searched (classification system followed by	lassification symbols)	
	nder "Electronic database consulted"		
•	n searched other than minimum documentation to the ext	•	
Electronic data DWPI: F04I similar term	base consulted during the international search (name of 3 43/-, 45/-; A61M; A61D 7/- with keywords s	data base and, where practicable, sear e peristaltic, tube, holder, rotor,	rch terms used) housing, bag, magnetic and
C.	DOCUMENTS CONSIDERED TO BE RELEVANT	7	
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
x	US 4178138A (ILES) 11 December 1979 The whole document		
Y	The whole document	•	1-44, 51-57 45-50, 58-66
x	US 3955902A (KYVSGAARD) 11 May 19 The whole document	76	1-44, 51-57
X	Derwent Abstract Accession No. 2001-2759 (TERUMO CORP) 23 January 2001 Abstract and Figure	55/29, Class B07, JP 2001-017	1-44, 51-57
X F	urther documents are listed in the continuation	of Box C X See pate	ent family annex
"A" docume	ar	ter document published after the inter- ad not in conflict with the application	national filing date or priority date but cited to understand the principle
"E" earlier a	pplication or patent but published on or "X" do international filing date	theory underlying the invention ocument of particular relevance; the cl onsidered novel or cannot be considere	aimed invention cannot be
claim(s)	or which may throw doubts on priority "Y" do	hen the document is taken alone ocument of particular relevance; the cl onsidered to involve an inventive step	aimed invention cannot be
"O" documer	as specified)  at referring to an oral disclosure, use, "&" de	ith one or more other such documents, person skilled in the art ocument member of the same patent fa	
"P" documer	on or other means It published prior to the international filing later than the priority date claimed		
	al completion of the international search	Date of mailing of the international	goorsh was and
14 May 2004	•	or manning of the international	2 0 MAY 2004
	ng address of the ISA/AU	Authorized officer	
PO BOX 200, W	PATENT OFFICE  /ODEN ACT 2606, AUSTRALIA  pot@ipaustralia.gov.au	ASANKA PERERA	
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C (C)		C1/NZ2003/	UUU280 '
C (Continua			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	•	Relevant to claim No.
	US 4530647A (UNO) 23 July 1985		
X	The whole document	•	1-44, 51-57
•			
	US 5445506A (AFFLERBAUGH et al.) 29 August 1995		
$\mathbf{X}$ .	Figures 43-44B and accompanying description		1-44, 51-5
			,
•	GB 2138511A (SMITH AND NEPHEW ASSOCIATED COMPANIES PL	σ <b>,</b>	
	24 October 1984	~) 	•
Y	The whole document		45-50
. •			
	WO 2001/091831A1 (CONSTANCE LIMITED) 6 December 2001		
Y	The whole document		58-77
			30-77
	US 6626355B2 (SASSE et al.) 30 September 2003		•
P, Y	The whole document		67-77
•			07-77
	PD 0776670 A2 (AL CONT ADODOD AMODIMO		
Y	EP 0776670A2 (ALCON LABORORATORIES, INC.) 4 June 1997 Column 4, lines 44-46, claim 2	[	<b></b>
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Box I	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This int	ernational search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1.	Claims Nos:
	because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos:
٠.	because they relate to parts of the international application that do not comply with the prescribed requirements to
	such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos:
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Вох П	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Into	ernational Searching Authority found multiple inventions in this international application, as follows:
	Supplemental Box
1.	W As all required additional accept for more timely and the state of
1,	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
•	The same of the sa
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
•	· 
Remark	on Protest
	X No protest accompanied the payment of additional search fees.

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#### Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

#### Continuation of Box No: II

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

- 1. Claims 1-9, 10-22, 23-27 are directed to a tube holder, a combination of a tube holder and a pump head having a tapered rotor and a method of loading a tube into a tube holder respectively. It is considered that the tube being insertable in a tube race by movement in a substantially orthogonal direction relative to the race so that it extends through a first tube inlet, around a first race part, out through a first tube outlet, in through a second tube inlet, around a second race part and out through a second tube outlet comprises a first "special technical feature".
- 2. Claims 28-44 are directed to a combination of a peristaltic pump head having a tapered rotor and a tube holder. It is considered that a tube race including a plurality of separate race parts around a recess for receipt of the tapered end of the rotor such that the tube can exit and re-enter the tube race comprises a second "special technical feature".
- 3. Claims 45-50 are directed to a peristaltic pump head. It is considered that a axially biased tapered pump rotor including gear teeth engaging teeth of a gear in a transmission mechanism wherein the teeth of both gears are of sufficient length to remain engaged during axial movement of the rotor relative to a housing comprises a third "special technical feature".
- 4. Claims 51-57 are directed to a kit of parts for assembling a peristaltic pump head assembly. It is considered that a housing having two parts and configured to receive a rotor such that the assembly can be assembled by snapping the housing parts together without the use of adhesives or separate fasteners comprises a fourth "special technical feature".
- 5. Claims 58-59 and 60-66 are directed to a flexible container having a reservoir for holding fluid and including a tube holder directly connected to it. It is considered that tube holder having tube race around a tapered aperture or recess for receipt of a tapered rotor of a peristaltic pump head and a resiliently flexible tube in fluid communication with the reservoir and extending around the tube race comprises a fifth "special technical feature".
- 6. Claims 67-77 are directed to a container holding at least one fluid for dispensing by a peristaltic pump. It is considered that a plurality of magnetic or magnetisable areas in predetermined positions to identify the container and configured for detection by a pump assembly having a plurality of sensors in corresponding predetermined positions comprises a sixth "special technical feature".

Since the abovementioned groups of claims do not share any of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept, a priori.



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Information on patent family members

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Pater	nt Document Cited in Search Report		ı	Pate	ent Family Member		
US	4178138	GB	1578022		•	<del></del>	· · · · · · · · · · · · · · · · · · ·
US	3955902	DK	278774	DK	295373		
US	4530647						
US.	5445506	CA	2155644	EP	0690960	WO	9517601
GB	2138511				· · · · · · · · · · · · · · · · · · ·		
WO	0191831	AU	60448/01	EP	1307249	US	2004007590
ÙS	6626355	DE	10005108	EP	1132102	US	2001020148
EP	0776670	AU	68034/96	CA	2187384	JР	9173338
		US	5899674	US	6059544		

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX